

HR965330AE

Electrical Specification @25°C

RoHS Compliant (PB Free)

Isolation: 2250VDC 0.5mA 60sec (J1~8 to P1~5 & SHIELD)

OCL: 350uH Minimum @100KHz 100mV with 8mAADC

Insertion Loss: -1.0dB Maximum @1MHz ~ 100MHz

Return Loss: -18dB Minimum @1MHz ~ 30MHz / -13.5dB Minimum @30MHz ~ 60MHz

-12dB Minimum @60MHz ~ 80MHz / -10dB Minimum @80MHz ~ 100MHz

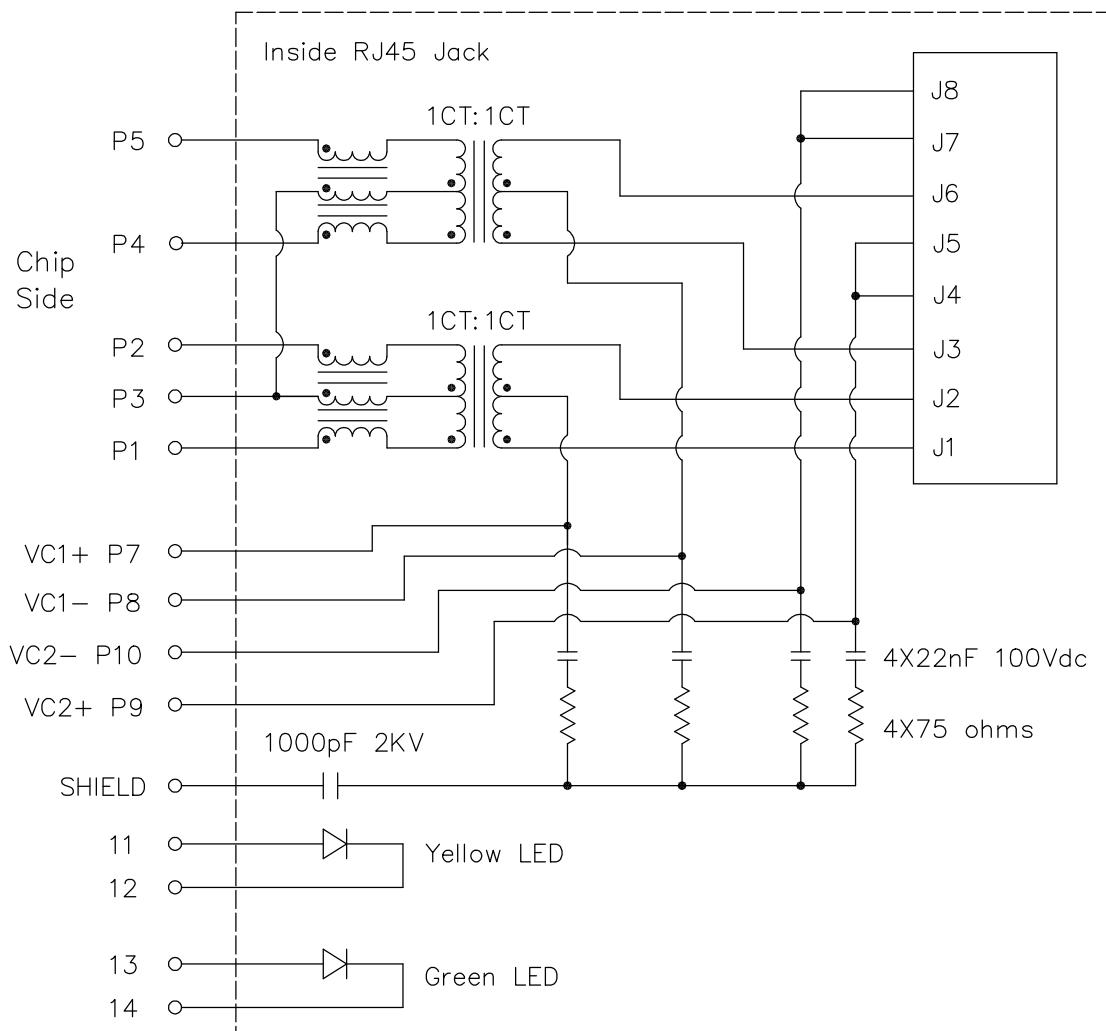
Common Mode Rejection: -30dB Minimum @1MHz ~ 100MHz

Crosstalk: -26dB Minimum @1MHz ~ 100MHz

Designed To Support 57VDC, 350mA per centre taps

(17.5W when using 2 centre taps; 35W when using 4 centre taps)

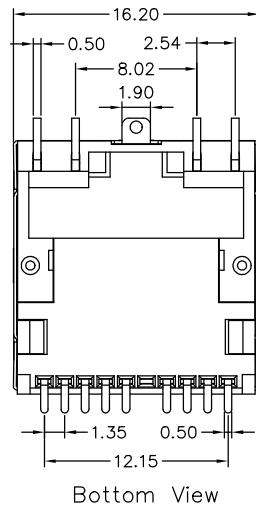
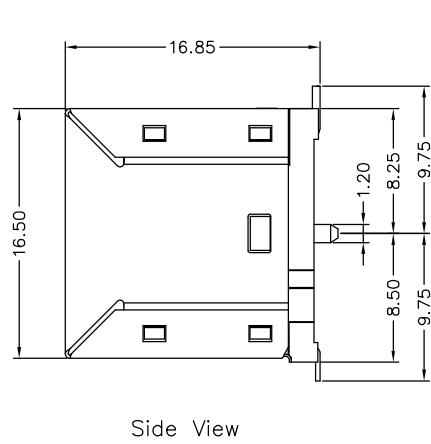
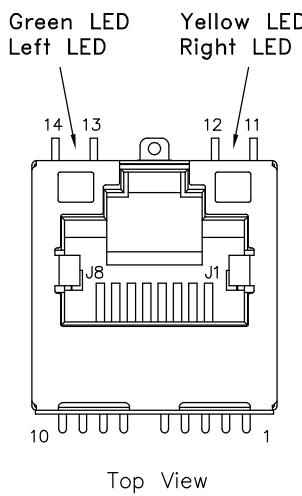
Schematics



HR965330AE

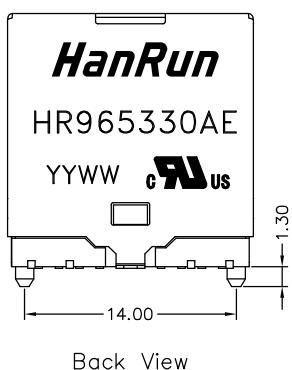
- RoHS Compliant (Pb Free)
- Designed for Network Interface Card Application
- Meets or Exceeds IEEE802.3af standards including 350uH Min OCL with 8mADC
- High performance for EMI suppression, Crosstalk, Return Loss and Consistent Electrical
- Minimum 2250VDC isolation per IEEE802.3 requirement
- Minimize PCB space and Simplify PCB Layout
- Less magnetic components to place on PCB, Higher reliability and yields
- UL Recognized Component: File # E330599

Mechanical Dimensions:



Remark:

1. Remove Pin #6



Standard LED	Wavelength	Forward V (Min/Max)	Forward A
Green	568nm	1.8V/2.8V	20mA
Yellow	585nm	1.8V/2.8V	20mA

Dimensions in mm

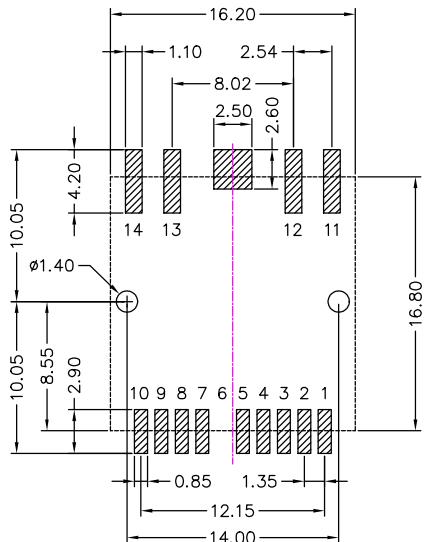
Unless otherwise specified, Tolerance: .xx ±0.25

REV.: 00

2 of 5

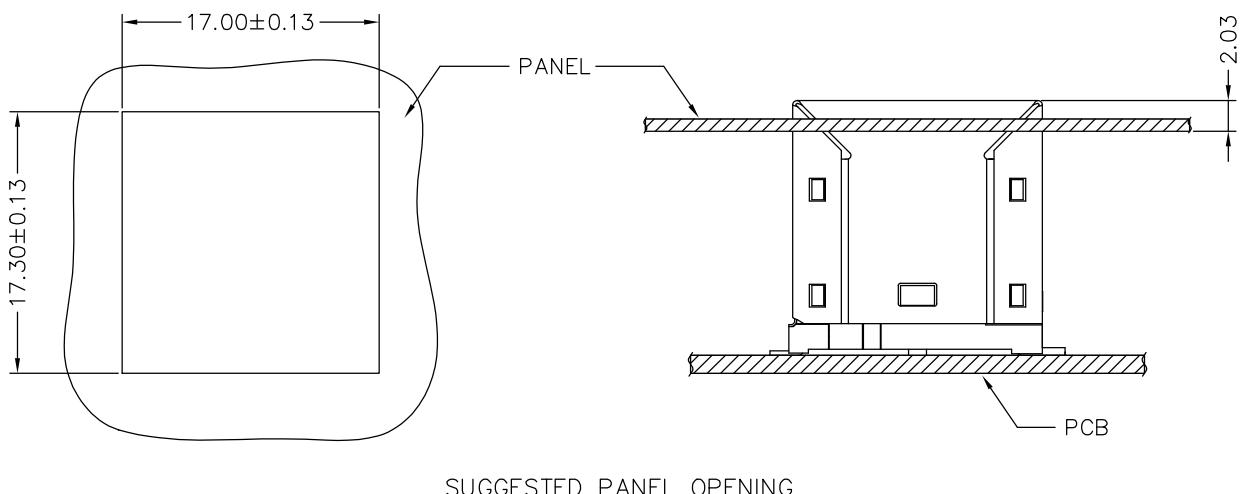
HR965330AE

Mechanical Dimensions:



Recommended PCB layout (Component Side View)
All dimension tolerance are ± 0.08 unless otherwise specified

Suggested Panel Cutout:



SUGGESTED PANEL OPENING

Dimensions in mm

Unless otherwise specified, Tolerance: .xx ± 0.25

REV.: 00

3 of 5

HR965330AE

Material Specification:

Housing: LCP Black UL94V-0

Shield: 30u" Nickel over 0.20mm Thickness Brass

Insert: LCP Black UL94V-0

Phosphor Bronze 0.30mm Thickness

Plating Area, 30u" gold over 50u" nickel

Solder Area, 100u" tin over 50u" nickel

Contact pin: LCP Black UL94V-0

Phosphor Bronze; 100u" Tinning

Mechanical Performance:

Mating force: 5 lbs Maximum

Unmating force: 5 lbs Maximum

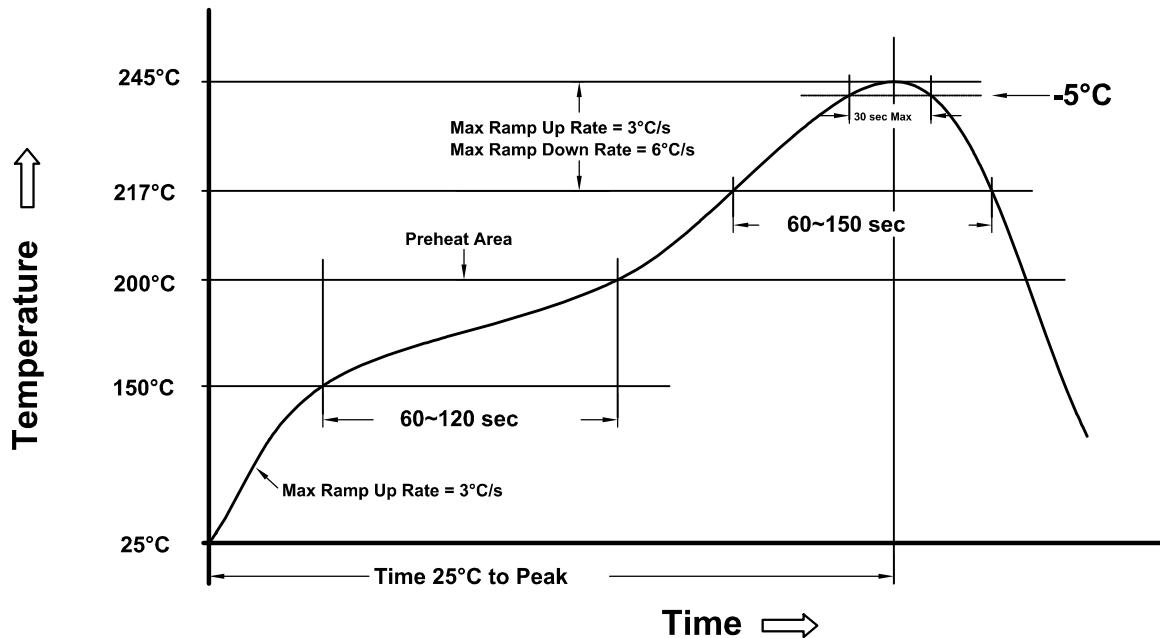
Operating life: 750 Cycles Minimum

Operating and Storage Temperature:

Operating Temperature Range: -40°C ~ +85°C

Storage Temperature Range: -40°C ~ +85°C

HR965330AE



Remarks:

- peak temperature = 245°C
- Maximum preheat rate = 3°C / sec
- Ramp up rate = 3°C / sec max
- Time above 217°C = 60 sec min / 150 sec max
- Maximum cooling rate = 6°C / sec
- T 25°C to peak = 8 min max
- preheat Time = 60 ~ 120 sec
- The number of allowed cycles in IR reflow \leq 2 cycles